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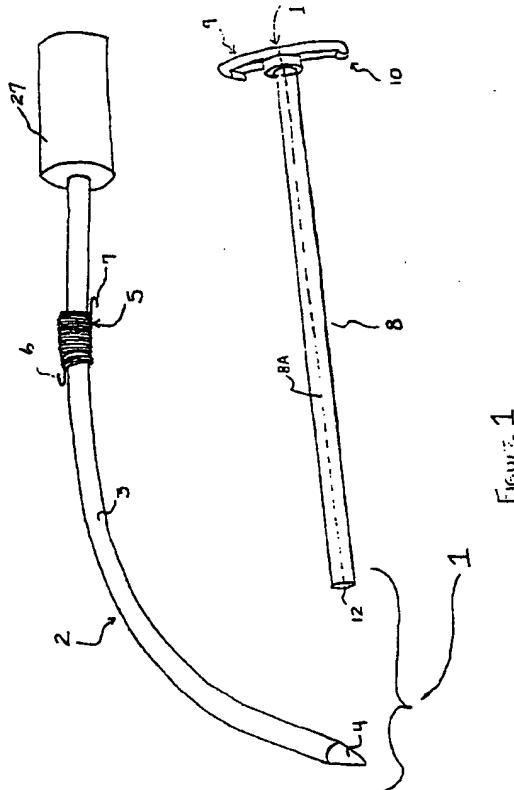
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(54) Insertion and tunneling tool for a subcutaneous wire patch electrode.

(57) A tool (1) for subcutaneously implanting a subcutaneous electrode comprising several wire patch electrode segments by way of a single surgical incision. The tunneling tool (1) comprises a stylet (2) and a peel-away sheath (8). The tunneling tool (1) is inserted into an incision, in a direction which corresponds to the desired placement of an electrode segment. Once the tunneling tool reaches a desired position, the stylet (2) is withdrawn, thereby revealing the interior of the peel-away sheath (8) and a resulting subcutaneous tunnel. The corresponding electrode segment is then inserted into this subcutaneous tunnel, and subsequently implanted in the patient. The implantation procedure is then repeated as many times as is necessary, using the same incision, until all the electrode segments for the particular electrode configuration have been implanted. In addition, the tunneling tool (1) can be adapted to conform to varying electrode segment sizes, which thereby allows the tool to conform to the varying needs of each individual patient. As an even further feature, the tunneling tool (1) can be constructed in a curved configuration to facilitate electrode implantation in the lateral thoracic region of the body.



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PARTIAL EUROPEAN SEARCH REPORT
which under Rule 45 of the European Patent Convention
shall be considered, for the purposes of subsequent
proceedings, as the European search report

Application number

EP 92305073.6

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl.)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
X	<u>US - A - 4 596 559</u> (J.J. FLEISCHHACKER)	1-3, 7, 11, 12	A 61 N 1/372
Y	* Totality *	9, 10	
X	<u>EP - A - 0 280 528</u> (BARD LTD.)	--	1, 7, 12
Y	* Totality *	9, 10	
A	--	2, 3, 11	
X	<u>US - A - 4 888 000</u> (P.H. McQUILKIN et al.)	--	1, 7, 12
Y	* Totality *	9, 10	
A	--	2, 3, 11	
Y	<u>GB - A - 2 103 936</u> (H.G. WALLACE LTD.)	--	9
	* Figure 1; abstract; page 1, lines 3-5; claims 1, 2 *		
Y	<u>EP - A - 0 362 462</u> (CATHETER TECHNOLOGY)	--	10
TECHNICAL FIELDS SEARCHED (Int. Cl.)			
			A 61 B A 61 M A 61 N
INCOMPLETE SEARCH			
<p>The Search Division considers that the present European patent application does not comply with the provisions of the European Patent Convention to such an extent that it is not possible to carry out a meaningful search into the state of the art on the basis of some of the claims.</p> <p>Claims searched completely: 1-12</p> <p>Claims searched incompletely:</p> <p>Claims not searched: 13-18</p> <p>Reason for the limitation of the search:</p> <p>Method for treatment of the human or animal body by surgery or therapy (see article 52(4) of the European Patent Convention)</p>			
Place of search VIENNA		Date of completion of the search 17-09-1992	Examiner LUDWIG
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			



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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- All claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for all claims.
- Only part of the claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid,
namely claims:
- No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions,

namely:

1. Claims: 1-12: ("A funneling fool for ...")
2. Claims: 19-25: ("A body implantable ... electrode ...")

- All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

- Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid,

namely claims:

- None of the further search fees has been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims.

namely claims: 1-12

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PARTIAL EUROPEAN SEARCH REPORT

Application number

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EP 92305073.6

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl.4) ⁵
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
A	<p>CORPORATION)</p> <ul style="list-style-type: none"> * Figure 1; abstract; column 1, lines 1-13; column 2, lines 15-32; column 5, lines 4-11; column 8, lines 20-27; claims 1,20 * --- <u>DE - A - 2 929 233</u> (MEDTRONIC INC.) * Fig. 1; claims 1,3,5; page 13, line 6 - page 16, line 15 * ---- 	1,3,9, 11	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)